



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

QC ABSTRACT

Name of Work: Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP
Bangalore

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes
1	Material(1:4:8)	7.43 Cum	1	1	Pass
2	Steel	0.48 Tonne	1	1	Pass
3	M20	17.33 Cum	3	3	Pass
4	Slab (100mm)	162.19 Sqm	1	1	Pass
5	DLC	347.47 Cum	2	2	Pass
6	M30	347.47 Cum	10	10	Pass
7	WMM	347.47 Cum	-	-	-
		Gradation	4	4	Pass
		AIV	2	2	Pass
		Shape Test	2	2	Pass
		Atterberg Limits	4	4	Pass

Cubes

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಅಭಿವೃದ್ಧಿ
ಜನವರಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory



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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 20.10.2023

TEST REPORT

CLIENT	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	Sri. Shankarappa M, Contractor, Bangalore.
NAME OF THE WORK	:	Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE	:	September -2023
DATE OF TESTING	:	18.10.2023 to 20.10.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	333 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	3 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.00 %	-

Note:

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K. Manu

ನವಾಬ್ ಸಾಹೇಬ್ ಕಾಂತ್ಲಾಲ್
ಶಿಲ್ಪಕರ್ಮಿ
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 20.10.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Date of Testing : 20.10.2023

IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	7.50	7.50	92.5	90-100
2.36	158	15.80	23.30	76.7	75-100
1.18	178	17.80	41.10	58.9	55-90
600 Micron	161	16.10	57.20	42.8	35-59
300 Micron	243	24.30	81.50	18.5	8-30
150 Micron	125	12.50	94.00	6.0	0-10

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ, ಸಂಶೋಧನೆ
ಮಹಾನಗರ ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

prkath
Authorised Signatory



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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 20.10.2023

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Date of Testing : 20.10.2023

Material : Sand - Masonry

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
					100
4.75	0	0.00	0.00	100.0	90-100
2.36	20	2.00	2.00	98.0	70-100
1.18	72	7.20	9.20	90.8	40-100
600 Micron	131	13.10	22.30	77.7	5-70
300 Micron	237	23.70	46.00	54.0	0-15
150 Micron	502	50.20	96.20	3.8	

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K. Murali

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ಶಿಬಿರ ಸಂಸ್ಥೆ
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

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Prakash
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 20.10.2023

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Date of Testing : 20.10.2023
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates
Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	2449	49.0	52.7	47.3	25-55
4.75	1961	39.2	91.9	8.1	0-10

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K. M. S. S.

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 20.10.2023

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Date of Testing : 20.10.2023
IS Code : IS 383:2016
Material : IS 2386 (Part 1):1963(RA 2011)
: 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
			0	100	100
80	0	0	1.14	98.86	95-100
40	171	1.14	56.81	43.19	30-70
20	8351	55.67	78.46	21.54	10-35
10	3247	21.65	97.05	2.95	0-5
4.75	2788	18.59			

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h. M. M. G.

K. S. S. S.
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ಶಿಕ್ಷಣ ಮತ್ತು ಸಂಶೋಧನೆ
ಬೆಂಗಳೂರು, 20.10.2023

CIVIL AIM CONSULTANTS & ENGINEERS

P. R. K.
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 23.10.2023

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Steel Dia/Length : 8mm, 10mm, 12mm " Fe500 TMT Bars"

Reference to BIS : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

codes : IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 23.10.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm ²)	Tensile strength (N/mm ²)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	542	635	1.17	14.5
2	TMT	10	0.619	549	642	1.17	15
3	TMT	12	0.891	556	645	1.16	15.5

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K. M. [Signature]

Vijay [Signature]
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಸಂಶೋಧನೆ
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

For CIVIL AIM CONSULTANTS & ENGINEERS
[Signature]
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 03.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency: Sri. Shankarappa M, Contractor, Bangalore.

Name of the work: Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID: : Cement Concrete

Size of cubes: : 150mmx150mmx150mm

Cross Sectional Area: : 22500 mm²

Technical Reference: : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete: : M₂₀

Compressive Strength as on: : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.10.2023	03.11.2023	8.102	335.9	14.93
2	27.10.2023	03.11.2023	8.119	341.8	15.19
3	27.10.2023	03.11.2023	8.128	345.2	15.34

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K. Manu

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಮಹಾನಗರ ಪಾಲಿಕೆ
ಶೆಟ್ಟಿಹಳ್ಳಿ ಸಬ್ ಡಿವಿಷನ್
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

For CIVIL AIM CONSULTANTS & ENGINEERS

P. R. Kanth
Authorised Signatory



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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 24.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency Sri. Shankarappa M, Contractor, Bangalore.

Name of the work Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	27.10.2023	24.11.2023	8.159	503.9	22.40
2	27.10.2023	24.11.2023	8.167	508.1	22.58
3	27.10.2023	24.11.2023	8.172	511.8	22.75

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K. M. S.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

For CIVIL AIM CONSULTANTS & ENGINEERS

Prithvi
Authorised Signatory



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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 09.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency Sri. Shankarappa M, Contractor, Bangalore.

Name of the work Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.11.2023	09.11.2023	8.129	341.5	15.18
2	02.11.2023	09.11.2023	8.138	345.9	15.37
3	02.11.2023	09.11.2023	8.141	347.2	15.43

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ಶಿಕ್ಷಣ ಮತ್ತು ಸಂಶೋಧನೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

[Signature]
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 30.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency Sri. Shankarappa M, Contractor, Bangalore.

Name of the work Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.11.2023	30.11.2023	8.171	509.3	22.64
2	02.11.2023	30.11.2023	8.188	504.1	22.40
3	02.11.2023	30.11.2023	8.192	508.7	22.61

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K. Murali

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಅಭಿವೃದ್ಧಿ ವಿಭಾಗ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಅಧೀನದಲ್ಲಿ, ಬೆಂಗಳೂರು

Prakash
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 09.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency Sri. Shankarappa M, Contractor, Bangalore.

Name of the work Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.11.2023	09.11.2023	8.127	333.6	14.83
2	02.11.2023	09.11.2023	8.151	345.2	15.34
3	02.11.2023	09.11.2023	8.168	345.8	15.37

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[Signature]

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 30.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency Sri. Shankarappa M, Contractor, Bangalore.

Name of the work Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.11.2023	30.11.2023	8.165	506.3	22.50
2	02.11.2023	30.11.2023	8.128	498.6	22.16
3	02.11.2023	30.11.2023	8.146	519.6	23.09

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K. M. Srinivas

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಪಟ್ಟಣ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು
For CIVIL AIM CONSULTANTS & ENGINEERS

prakash
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 08.11.2023

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Contractor : Sri. Shankarappa M, Contractor, Bangalore.

Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

No. of Sample Tested : 03

Date of Testing : 08.11.2023

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M₂₀

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	79.00	0.375	2417.54	1.58	0.955	33.60	17.11	18.48	17.64	22.05
2	50.00	80.00	0.389	2476.45	1.60	0.957	33.80	17.21	18.59	17.79	22.24
3	50.00	81.00	0.395	2483.60	1.62	0.959	34.20	17.42	18.81	18.04	22.55

Note:

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ್
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2720(Part 5):1985
Date of Testing : 25.10.2023 to 27.10.2023
Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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K. M. M. S.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ ಮತ್ತು ಸಂಶೋಧನೆ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2720(Part 5):1985
Date of Testing : 25.10.2023 to 27.10.2023
Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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K. M. S. S.

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ಶಿಬಿರಕ್ಕೆ ಉಪವಿಭಾಗ
ಬಜೀರಾಜಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2720(Part 5):1985
Date of Testing : 25.10.2023 to 27.10.2023
Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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K. M. S. S.

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ಶೃಂಗೇರಿ ಉಪವಿಭಾಗ
ಬಿಜನೂರು, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

IS Code : IS 2720(Part 5):1985
Date of Testing : 25.10.2023 to 27.10.2023
Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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ಶಿವಮೊಗ್ಗ, ಬೆಂಗಳೂರು

ಶಿವಮೊಗ್ಗ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 27.10.2023

Aggregate Impact Value

Client	: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Sri. Shankarappa M, Contractor, Bangalore.
Name of the Work	Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	27.10.2023

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	383	22.23
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	85	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	297.5	
4	Aggregate Impact value = percent fines $100 * (W_2 / W_1) \%$	22.14	22.32	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30% (As per MORTH Specification table 400.12)

Note:

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- The results indicated above are based on the tests carried out on the samples collected at the site.
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K. M. [Signature]

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಅಭಿವೃದ್ಧಿ
ಅಧಿಕಾರಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 27.10.2023

Aggregate Impact Value

Client	: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Sri. Shankarappa M, Contractor, Bangalore.
Name of the Work	Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	27.10.2023

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	383	22.23
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	85	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	297.5	
4	Aggregate Impact value = percent fines $100 * (W_2/W_1)\%$	22.14	22.32	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30% (As per MORTH Specification table 400.12)

Note:

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K. M. Sreekanth

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಪಂಚಾಯತ್ ರಾಜ್
ಬೆಂಗಳೂರು, ಬೆಂಗಳೂರು
ಅಧಿಕಾರಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 27.10.2023

Aggregate Impact Value

Client	: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Sri. Shankarappa M, Contractor, Bangalore.
Name of the Work	Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	27.10.2023

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	388	385	21.93
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	84	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	299.5	
4	Aggregate Impact value = percent fines $100 * (W_2/W_1)\%$	21.65	22.21	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specification table 400.12)

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K. M. [Signature]

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ಜಿಲ್ಲಾಕು ಸಾರ್ವಜನಿಕ
ಕಾರ್ಯಾಚರಣೆ, ಬೆಂಗಳೂರು
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Date : 27.10.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

GRADATION FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 27.10.2023
Material Type : Wet Mix Macadam

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	392	392	3.9	96.1	95-100
22.4	2365	2757	27.6	72.4	60-80
11.2	2360	5117	51.2	48.8	40-60
4.75	1745	6862	68.6	31.4	25-40
2.36	1390	8252	82.5	17.5	15-30
0.600	825	9077	90.8	9.2	8-22
0.075	413	9490	94.9	5.1	0-8

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K. Murali

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜವರಹಳ್ಳಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

GRADATION FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 27.10.2023
Material Type : Wet Mix Macadam
Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
			0	100	100
53	0	0	4.0	96.0	95-100
45	402	402	27.4	72.6	60-80
22.4	2336	2738	51.0	49.0	40-60
11.2	2358	5096	68.5	31.5	25-40
4.75	1756	6852	82.5	17.5	15-30
2.36	1396	8248	91.4	8.6	8-22
0.600	896	9144	95.6	4.4	0-8
0.075	416	9560			

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K - M

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

GRADATION FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 27.10.2023
Material Type : Wet Mix Macadam

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	372	372	3.7	96.3	95-100
22.4	2349	2721	27.2	72.8	60-80
11.2	2241	4962	49.6	50.4	40-60
4.75	1856	6818	68.2	31.8	25-40
2.36	1325	8143	81.4	18.6	15-30
0.600	985	9128	91.3	8.7	8-22
0.075	342	9470	94.7	5.3	0-8

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ಶಿಬಿರಕ್ಕೆ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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K. Murali



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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

GRADATION FOR WMM

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
IS Code : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 27.10.2023
Material Type : Wet Mix Macadam

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	381	381	3.8	96.2	95-100
22.4	2379	2760	27.6	72.4	60-80
11.2	2249	5009	50.1	49.9	40-60
4.75	1955	6964	69.6	30.4	25-40
2.36	1259	8223	82.2	17.8	15-30
0.600	623	8846	88.5	11.5	8-22
0.075	406	9252	92.5	7.5	0-8

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K. M. S.

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ಶಿಬಿರಕ್ಕೆ ಉಪವಿಭಾಗ
ಅಭಿಮತದಾರರು
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date : 27.10.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Sri. Shankarappa M, Contractor, Bangalore.
Name of Work	Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	27.10.2023

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.40	11.80	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.90	
	Combined Flakiness & Elongation index	25.00	25.70	

Note:

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K. Murali

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ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು, 27/10/2023

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Date : 27.10.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	Sri. Shankarappa M, Contractor, Bangalore.
Name of Work	Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	27.10.2023

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.30	12.80	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.90	14.10	
	Combined Flakiness & Elongation index	26.20	26.90	

Note:
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K. Murali

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಬಿರಕ್ಕೆ ಉಪಸ್ಥಿತರು
ಅಧಿಕಾರ, ಅಧಿಕಾರ

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date 04.11.2023

GRADATION FOR DRY LEAN CONCRETE MORTH TABLE-600-1

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Date of Testing : 04.11.2023
Material : Dry Lean Concrete

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1075	1075	10.8	89.3	80-100
9.5	2492	3567	35.7	64.3	55-75
4.75	1549	5116	51.2	48.8	35-60
0.600	3271	8387	83.9	16.1	10-35
0.075	997	9384	93.8	6.2	0-8

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K. M. ...

ಸಹಾಯಕ ಪ್ರಾಂಶುಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಲ್ಪಕೃಷ್ಣ ಉಪವಿಭಾಗ
ಬಹದೂರು, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Pr. Kanth
Authorised Signatory



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



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Date 04.11.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

GRADATION FOR DRY LEAN CONCRETE MORTH TABLE-600-1

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of Work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Date of Testing : 04.11.2023

Material : Dry Lean Concrete

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	1125	1125	11.3	88.8	80-100
9.5	2519	3644	36.4	63.6	55-75
4.75	1549	5193	51.9	48.1	35-60
0.600	3249	8442	84.4	15.6	10-35
0.075	1029	9471	94.7	5.3	0-8

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

[Signature]

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಿಲ್ಲಾ ಮಂಟಪ, ಬೆಂಗಳೂರು

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[Signature]
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ENGINEERS



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Date: 20.11.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	20.11.2023	8.141	500.9	22.26
2	13.11.2023	20.11.2023	8.166	503.7	22.39
3	13.11.2023	20.11.2023	8.720	499.8	22.21

Note:

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಕರೇ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Authorized Signatory



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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 11.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	11.12.2023	8.194	706.9	31.42
2	13.11.2023	11.12.2023	8.186	708.3	31.48
3	13.11.2023	11.12.2023	8.188	711.5	31.62

Note:

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K. M. [Signature]

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧ್ಯಯನಾಧಿಕಾರಿ
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಹಬ್ಬನಹಳ್ಳಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 20.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	20.11.2023	8.145	502.9	22.35
2	13.11.2023	20.11.2023	8.154	506.1	22.49
3	13.11.2023	20.11.2023	8.169	508.7	22.61

Note:

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K. Manoj

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜಲಾನಯನ, ಬೆಂಗಳೂರು

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prCkanth
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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 11.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	11.12.2023	8.177	702.1	31.20
2	13.11.2023	11.12.2023	8.185	706.9	31.42
3	13.11.2023	11.12.2023	8.192	711.8	31.64

Note:

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K. M. S. S.

ಸಹಾಯಕ ಪ್ರಾಂಶುಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬಿರಕ್ಕೆ ಉಪವಿಭಾಗ
ಜಿಲ್ಲಾ ಮಂತ್ರಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 20.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	20.11.2023	8.174	515.2	22.90
2	13.11.2023	20.11.2023	8.169	505.3	22.46
3	13.11.2023	20.11.2023	8.188	484.9	21.55

Note:

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K. M. [Signature]

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಜಿಲ್ಲಾ ಮಟ್ಟ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 11.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	11.12.2023	8.154	705.2	31.34
2	13.11.2023	11.12.2023	8.146	719.3	31.97
3	13.11.2023	11.12.2023	8.168	724.6	32.20

Note:

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K. Murali

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Date: 20.11.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client

: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency

: Sri. Shankarappa M, Contractor, Bangalore.

Name of the work

: Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID

: Cement Concrete

Size of cubes

: 150mmx150mmx150mm

Cross Sectional Area

: 22500 mm²

Technical Reference

: IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete

: M₃₀

Compressive Strength as on

: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	20.11.2023	8.134	505.9	22.48
2	13.11.2023	20.11.2023	8.149	481.9	21.42
3	13.11.2023	20.11.2023	8.150	505.1	22.45

Note:

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 11.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	11.12.2023	8.178	705.3	31.35
2	13.11.2023	11.12.2023	8.206	706.7	31.41
3	13.11.2023	11.12.2023	8.199	709.3	31.52

Note:

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K. M. M. C.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿವೃದ್ಧಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಜಿಲ್ಲಾಪಂಚಾಯತ್, ಬೆಂಗಳೂರು

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Date: 20.11.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	20.11.2023	8.119	501.9	22.31
2	13.11.2023	20.11.2023	8.127	508.4	22.60
3	13.11.2023	20.11.2023	8.144	507.3	22.55

Note:

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K. Manjunath

ಸಹಾಯಕ ಜಿಲ್ಲಾ ಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬಿಜನವಿ. ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 11.12.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	13.11.2023	11.12.2023	8.184	705.2	31.34
2	13.11.2023	11.12.2023	8.176	719.3	31.97
3	13.11.2023	11.12.2023	8.190	728.5	32.38

Note:

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K. M. G.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಮತ

ಶಿಕ್ಷಕರ ಸಹಾಯಕಿ
ಜನಪರಿಚಿತ, ಬೆಂಗಳೂರು

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Date: 12.12.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	12.12.2023	8.177	719.8	31.99
2	14.11.2023	12.12.2023	8.169	726.3	32.28
3	14.11.2023	12.12.2023	8.181	732.5	32.56

Note:

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಬಾಂಬೆ ಅಭಿವೃದ್ಧಿ
ಶಿಕ್ಷಣ, ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

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Job No.: CACE/BBMP/SM/W.No.17/2023-24

Date: 21.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	21.11.2023	8.177	515.2	22.90
2	14.11.2023	21.11.2023	8.189	521.8	23.19
3	14.11.2023	21.11.2023	8.168	508.9	22.62

Note:

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಕರು ಉಪವಿಭಾಗ
ಬಿಜಿಎಂಪಿ, ಬೆಂಗಳೂರು

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory



Date: 21.11.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	21.11.2023	8.165	505.2	22.45
2	14.11.2023	21.11.2023	8.146	513.9	22.84
3	14.11.2023	21.11.2023	8.152	484.5	21.53

Note:

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K. Ramesh

ಪ್ರಾಧಿಕಾರಿತ ಸಹಿ
ಶ್ರೀಕೃಷ್ಣ ಉಪನಿವಾಸಿ
ಬಾಂಧವರು, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

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Authorised Signatory



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Date: 12.12.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client

: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency

: Sri. Shankarappa M, Contractor, Bangalore.

Name of the work

: Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID

: Cement Concrete

Size of cubes

: 150mmx150mmx150mm

Cross Sectional Area

: 22500 mm²

Technical Reference

: IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete

: M₃₀

Compressive Strength as on

: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	12.12.2023	8.198	709.3	31.52
2	14.11.2023	12.12.2023	8.165	716.2	31.83
3	14.11.2023	12.12.2023	8.146	724.5	32.20

Note:

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K. M. [Signature]

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಅಭಿವೃದ್ಧಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Date: 21.11.2023

Job No.: CACE/BBMP/SM/W.No.17/2023-24

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	21.11.2023	8.141	506.2	22.50
2	14.11.2023	21.11.2023	8.155	516.3	22.95
3	14.11.2023	21.11.2023	8.159	519.4	23.08

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K. M. S. S.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	12.12.2023	8.168	716.2	31.83
2	14.11.2023	12.12.2023	8.189	724.5	32.20
3	14.11.2023	12.12.2023	8.172	738.9	32.84

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K. Murali

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	21.11.2023	8.198	509.3	22.64
2	14.11.2023	21.11.2023	8.166	524.2	23.30
3	14.11.2023	21.11.2023	8.146	521.3	23.17

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K. Murali

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜವಾನಿ. ಬೆಂಗಳೂರು

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Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Shankarappa M, Contractor, Bangalore.
Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	12.12.2023	8.188	708.2	31.48
2	14.11.2023	12.12.2023	8.160	716.9	31.86
3	14.11.2023	12.12.2023	8.146	722.4	32.11

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K. M. [Signature]

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Agency : Sri. Shankarappa M, Contractor, Bangalore.

Name of the work : Construction of CC Roads and drains in Janatha Colony in Ward No.17, BBMP Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	21.11.2023	8.198	500.2	22.23
2	14.11.2023	21.11.2023	8.165	516.3	22.95
3	14.11.2023	21.11.2023	8.146	489.3	21.75

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K. M. S. S.

ಸಹಾಯಕ ಪ್ರಾಯೋಜಕರ ಅಧಿಕಾರಿಗಳು
ಶಿಬಿರಕ್ಕೆ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₃₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	12.12.2023	8.184	726.3	32.28
2	14.11.2023	12.12.2023	8.169	708.2	31.48
3	14.11.2023	12.12.2023	8.154	714.6	31.76

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K. Murali

ಸಹಾಯಕ ಪ್ರಾಧಿಕಾರಿ ಅಧೀನದಲ್ಲಿ
ಶಿಕ್ಷಕರು ಉಪವಿಭಾಗ
ಜವಾನಿ, ಬೆಂಗಳೂರು

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	21.11.2023	8.166	505.2	22.45
2	14.11.2023	21.11.2023	8.189	511.3	22.72
3	14.11.2023	21.11.2023	8.172	489.6	21.76

Note:

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K. Manjunath

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಮುಖ್ಯಮಂತ್ರಿ ಕಛೇರಿ, ಬೆಂಗಳೂರು
ಶಿಲ್ಪಕಲಾ ವಿಭಾಗ
ಜಿಲ್ಲಾ ಮಂತ್ರಿ, ಬೆಂಗಳೂರು

ಶಿಲ್ಪಕಲಾ ವಿಭಾಗ
ಜಿಲ್ಲಾ ಮಂತ್ರಿ, ಬೆಂಗಳೂರು

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Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₃₀
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	14.11.2023	12.12.2023	8.198	708.2	31.48
2	14.11.2023	12.12.2023	8.166	716.3	31.84
3	14.11.2023	12.12.2023	9.148	721.4	32.06

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K. Manu

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ
ಶಿಕ್ಷಣ, ಅಭಿವೃದ್ಧಿ
ಮಾಲೀಕರಣ, ಬೆಂಗಳೂರು
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